



PRODUCT DATA SHEET

Sika® Bonding Primer

TWO-COMPONENT WATER-BASED EPOXY PRIMER

PRODUCT DESCRIPTION

Sika® Bonding Primer is a two-component, water-based epoxy primer to consolidate substrates and enhance the adhesion of Sikalastic® RoofPRO Systems.

WHERE TO USE

Versatile primer for use with:

- Sikalastic® RoofPRO Systems
- Sikagard® coatings
- Suitable for use on concrete, masonry, tiles, insulation foams, bituminous surfaces, plaster, cementitious renders, screeds and mortars

CHARACTERISTICS / ADVANTAGES

- Fast curing – overcoat possible after 1 to 2 hours
- Long pot life – up to 12 hours
- Low odour – water-based product
- Low VOC
- Consolidates dusty or friable surfaces
- Uniforms the absorbency of the substrate
- Enhances adhesion to a broad range of substrates
- Easy application by brush or roller

PRODUCT INFORMATION

Composition / Manufacturing	Epoxy, waterborne and polyamine curative
Packaging	Bonding Primer Kit: 3.8 L (1 US gal.), 19 L (5 US gal.) Part A: 3 L (0.8 US US gal.), 15 L (4 US gal.) Part B: 0.7 L (0.2 US gal.), 3.8 L (1 US gal.)
Appearance / Colour	Milky green liquid resin
Shelf Life	24 months from date of production
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 5 °C (41 °F) and 25 °C (77 °F). Higher storage temperatures may reduce shelf life of product. Reference shall also be made to the storage recommendations within the safety data sheet.
Density	~1.03 kg/L

Solid content	15 % by volume	(ASTM D2697)
Volatile organic compound (VOC) content	12.5 g/L	(ASTM D2369-81)

TECHNICAL INFORMATION

Service Temperature	From -30 °C to 80 °C (-22 °F to 176 °F) intermittent.
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APPLICATION INFORMATION

Mixing Ratio	Component A : Component B = 4:1 (by volume)																								
Yield	<ul style="list-style-type: none"> ▪ 350 ft²/US gal. on non-absorbent smooth substrates ▪ 300 ft²/US gal. on prepared, dry concrete. ▪ 200 ft²/US gal. on absorbent gypsum and cementitious cover boards. <p>Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield.</p>																								
Ambient Air Temperature	5 °C (41 °F) min. / 40 °C (104 °F) max.																								
Relative Air Humidity	80 % R.H. max.																								
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 3 °C (5 °F) above dew point.																								
Substrate Temperature	5 °C (41 °F) min. / 60 °C (140 °F) max.																								
Substrate Moisture Content	≤ 4 % moisture content Test method: Sika® Tramex Meter No rising moisture according to ASTM (Polyethylene sheet)																								
Pot Life	12 hours																								
Waiting Time / Overcoating	<p>Before applying any recommended Sikalastic® RoofPRO resin on Sika® Bonding Primer, allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum waiting time</th> <th>Maximum waiting time</th> </tr> </thead> <tbody> <tr> <td>10 °C (50 °F)</td> <td>4 hours approx.</td> <td>7 days</td> </tr> <tr> <td>20 °C (68 °F)</td> <td>2 hours approx.</td> <td>7 days</td> </tr> <tr> <td>30 °C (86 °F)</td> <td>1 hour approx.</td> <td>7 days</td> </tr> </tbody> </table> <p>Before applying Sikagard® products on Sika® Bonding Primer allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum waiting time</th> <th>Maximum waiting time</th> </tr> </thead> <tbody> <tr> <td>10 °C (50 °F)</td> <td>24 hours approx.</td> <td>7 days</td> </tr> <tr> <td>20 °C (68 °F)</td> <td>8 hours approx.</td> <td>7 days</td> </tr> <tr> <td>30 °C (86 °F)</td> <td>6 hours approx.</td> <td>7 days</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. Ideally, membrane resin will be applied within 24 hours of primer application. This is required for applications in tropical/subtropical environments to avoid UV-related primer deterioration. Maximum primer exposure is seven (7) days. Primer exposed longer than 7 days, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.</p>	Substrate temperature	Minimum waiting time	Maximum waiting time	10 °C (50 °F)	4 hours approx.	7 days	20 °C (68 °F)	2 hours approx.	7 days	30 °C (86 °F)	1 hour approx.	7 days	Substrate temperature	Minimum waiting time	Maximum waiting time	10 °C (50 °F)	24 hours approx.	7 days	20 °C (68 °F)	8 hours approx.	7 days	30 °C (86 °F)	6 hours approx.	7 days
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

- To avoid dew point conditions during application, relative humidity must be no more than 95 % and substrate temperature must be at least 3 °C (37.5 °F) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 5 °C (41 °F); maximum is 35 °C (95 °F). Surface temperatures must be no higher than 60 °C (140 °F).
- Do not apply on substrates with moisture content greater than 4 % by weight, measured by Tramex® Concrete Moisture Encounter Meter.
- Minimum age of concrete must be 21–28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapour transmission will occur during application and cure. This condition may be checked using ASTM D4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface.
- Allow sufficient time for the substrate to dry after rain or inclement weather, as there is potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.
- Precautions should be taken to prevent vapours and/or odours from entering the building/structure, including but not limited to turning off and sealing air intake vents and throughwall air conditioners, and other means of vapour/odour ingress during application and cure. Any repairs required to achieve a level surface must be performed prior to application (consult a Sika Canada representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- On grade concrete decks should not be covered with Sikalastic® membrane systems. Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® membrane systems without additional deck evaluation and subsequent approval by Technical Services.
- Not recommended for metal substrates.

Product Data Sheet
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ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and masonry, wood and plywood, mineralized asphaltic cap sheet, sprayed polyurethane foam, gypsum and cementitious cover boards, and coated glass-faced polyisocyanurate foam boards. Reference separate System Data Sheet for specific surface preparation requirements.

SUBSTRATE PREPARATION

All surfaces to be coated should be thoroughly cleaned by conventional means. Inspect the substrate. Spalling, flaking or damaged areas should be repaired using compatible materials to match surroundings or replaced as necessary. If in doubt apply a test area first. Tiles have to be prepared mechanically, glazing has to be removed. Grinding may be necessary to level the surface. For detailed information regarding substrate quality / preparation and primer chart please refer to Sikalastic® RoofPRO Application Manual.

MIXING

Mix ratio is 4:1 (A:B) by weight and volume. Add Part B into Part A and mix with stir stick or mechanical mixer (*Jiffy* type) at low speed. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform light green colour. **Do not break down kits into smaller quantities.**

APPLICATION

Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.

CLEAN UP

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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